AMENDMENT

In the claims:

Please amend the claims to read as follows. A marked up copy of the amended claims appears in the Appendix attached to this paper.

1. A method for communicating a data signal over a power line having a center conductor carrying a power signal, wherein the method comprises:

inducing an alternating current (AC) voltage from the power signal carried by the power line;

powering a transceiver device with the induced AC voltage; and

communicating the data signal with the transceiver device via the power line.

2. The method of claim 1, further comprising transmitting the data signal to an end user communication device via the transceiver device.

3. The method of claim 2, wherein the data signal is transmitted over a fiber optic link.

4. The method of claim 1, further comprising receiving the data signal from an end user communication device via the transceiver device.

5. The method of claim 2, wherein the data signal is received over a fiber optic link.

7. The method of claim 1, further comprising filtering the data signal.

8. A device for communicating a data signal over a power line having a center conductor and an insulator, wherein the power line carries a power signal, the device comprising:

a transformer device having a core disposed in relation to the power line for inducing an AC voltage from the power signal carried by the power line; and

a transceiver that receives power from the transformer device, and communicates the data signal through the power line.

9. The device of claim 8, further comprising:

a ferrite member disposed in proximity to the power line for increasing the inductance of a section of the power line; and

an enclosure for housing the ferrite member, the transformer device, and the transceiver device.

B2 CNtd

10. The device of claim 8, wherein the power line includes a second conductor external to the insulator ,wherein the transceiver communicates the data signal through the second conductor.

14. The device of claim 10, wherein the power line includes an outer insulator external to the second conductor, said outer insulator includes a gap, and the transceiver is coupled to the second conductor at said gap in the outer insulator of the power line.

Sub. C1

15. The device of claim 8, wherein the power received by the transceiver is an AC power signal and the transceiver converts the AC power signal to a direct current (DC) power signal.

16. The device of claim 8, wherein the power received by the transceiver is an AC power signal and further comprising a low-pass filter for filtering the AC power signal provided by the transformer device.

17. The device of claim 8, further comprising a high-pass filter for filtering the data signal provided via the external conductor.

18. A method for providing communication of a data signal over a coaxial power cable having a center conductor carrying a power signal, an outer conductor, and an outer insulator outside the outer conductor, the method comprising:

B3 Cont.

removing a portion of the outer insulator of the coaxial power cable;

coupling a communication device to the outer conductor of the coaxial power cable where the outer insulator is removed;

inducing a voltage from the power signal carried by the center conductor of the coaxial power cable; and

providing the induced voltage to power the communication device.

19. The method of claim 18, further comprising grounding the outer conductor at a predetermined distance from the communication device.

20. The method of claim 19, further comprising selecting the predetermined length to provide an inductance value.

21. The method of claim 18, further comprising providing at least one ferrite core outside the outer insulator to adjust an inductance.

22. The method of claim 18, further comprising providing a gap in the outer conductor, wherein the communication device is communicatively coupled to the outer conductor on both sides of the gap.

23. The method of claim 18, wherein the induced voltage is supplied to the communication device via a power supply.

25. A method for coupling a transceiver to an electric power line, wherein the electric power line has a center conductor that carries a first alternating current (AC) electrical voltage and a concentric outer conductor having an insulative cover, wherein the concentric outer conductor carries a data signal, the method comprising:

inducing a second voltage from the center conductor to provide power to the transceiver; and

communicating the data signal from the outer conductor to the transceiver.

26. The method of claim 25, wherein the data signal carried by the concentric outer conductor is supplied via a point of presence.

27. The method of claim 25, further comprising removing a portion of the insulative cover to expose the concentric outer conductor.

28. The method of claim 27, wherein the removed portion of the insulative cover is removed from the periphery of the concentric outer conductor.

31. The method of claim 25, wherein the transceiver is conductively coupled to the outer conductor to facilitate data communications therethrough.

32. The method of claim 25, further comprising converting the second voltage to a direct current voltage.

33. The method of claim 25, wherein the first AC voltage is greater than 600 volts.

35. A system for communicating a data signal on the outer conductor of an electric power line carrying an AC power signal having a first voltage on a center conductor, comprising:

a transceiver in communication with the electric power line, wherein the transceiver is communicatively coupled to the outer conductor to provide communications therethrough, and wherein the transceiver receives electrical power from the center conductor.

36. The system of claim 35, wherein the center conductor induces a second voltage that supplies power to the transceiver.

37. The system of claim 36, wherein the transceiver includes a power supply that